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## Amendments to the Claims:

The following listing of claims will replace any/all prior versions, and listings, of claims in the application, wherein additions are shown in underlined text and deletions are shown in strike-out text or between breckets ([]):

- (Currently Amended) A process for separating solids from liquids in a filtration zone defining a higher concentration zone and a lower concentration zone separated by a filter, the process comprising the steps of:
  - (a) directing flowing a slurry feed comprising a liquid and a solid into the higher concentration zone;
  - (b) directing flowing a displacement fluid to the higher concentration zone countercurrent to the flow of the slurry feed; and
  - (c) removing at least a portion of the liquid through the filter to the lower concentration zone, producing a filtrate;

wherein the displacement fluid displaces at least a portion of the liquid from the alumy feed.

- 2. (Original) The process of claim 1, wherein the displacement fluid is a gas.
- (Canceled).
- (Canceled).
- (Original) The process of claim 1, further comprising the step of passing at least a portion of the displacement fluid through a filter to the lower concentration zone.
- (Original) The process of claim 2, further comprising the step of passing at least a portion of the gas through a filter to the lower concentration zone.
- (Original) The process of claim 1, wherein the sturry feed comprises a product from a crystallization process.
- Original) The process of claim 2, wherein the sturry feed comprises a product from a crystallization process.

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- Qriginal) The process of claim 7, wherein the slurry feed comprises paraxylene.
- (Original) The process of claim 8, wherein the slurry feed comprises paraxylene.
- 11. (Original) The process of claim 1, wherein the filtrate comprises at least one of ortho-xylene, meta-xylene and para-xylene.
- 12. (Original) The process of claim 2, wherein the filtrate comprises at least one of ortho-xylene, meta-xylene and para-xylene.
- 13. (Original) The process of claim 1, further comprising the step of forming a dense phase in the higher concentration zone.
- 14. (Original) The process of claim 2, further comprising the step of forming a dense phase in the higher concentration zone.
- 15. (Original) The process of claim 13, wherein the dense phase comprises a solid packed bed.
- 16. (Original) The process of claim 14, wherein the dense phase comprises a solid packed bed.

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- 17. (Withdrawn) A process for maintaining a solid phase throughout the separation of liquids from solids in a filtration zone defining a higher pressure zone and a lower pressure zone separated by a filter, the process comprising the steps of:
  - (a) directing a slurry feed comprising a liquid and a solid to the higher pressure zone at a pressure;
  - (b) Imparting an opposing pressure on the slurry feed in the higher pressure zone;
    - (c) forming a dense phase in the higher pressure zone; and
  - (d) maintaining the higher pressure zone at a temperature lower than the melting point of at least one solid in the sturry feed.
- 18. (Withdrawn) The process of claim 17, wherein the opposing force comprises by draulic pressure.
- 19. (Withdrawn) The process of claim 17, wherein the opposing force comprises pneumatic pressure.
- 20. (Withdrawn) The process of claim 17, wherein the temperature in step (d) corresponds to the meiling point of para-xylene.
- 21. (Withdrawn) The process of claim 17, wherein the slurry feed comprises a product of a crystallization process.
- 22. (Withdrawn) The process of claim 21, wherein the slurry feed comprises para-xylene.

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- 23. (Withdrawn) A process for separating solids from liquids in a filtration zone defined by a higher pressure zone and a lower pressure zone separated by a filter, the process comprising the steps of:
  - (a) directing a sturry feed comprising a liquid and a solid into the higher pressure zone;
  - (b) directing a displacement fluid into the higher pressure zone in countercurrent relation to the slurry feed;
    - (c) forming a dense phase in the higher pressure zone; and
  - (d) passing at least a portion of the fluid through the filter to the lower pressure zone.
- 24. (Withdrawn) The process of claim 23, wherein a substantial portion of the displacement fluid passes through the filter to the lower pressure zone.
- 25. (Withdrawn) The process of claim 23, wherein at least a portion of the displacement fluid passes through at least a portion of the solid packed bed to the filter.
- 26. (Withdrawn) The process of claim 23, further comprising the step of passing at least a portion of the liquid through the lifter to the lower pressure zone, forming a filtrate.
- 27. (Withdrawn) The process of claim 23, wherein the displacement fluid is insoluble with the solids in the sturry feed.
- 28. (Withdrawn) The process of claim 26, wherein the displacement fluid is substantially insoluble with the filtrate.
  - 29. (Withdrawn) The process of claim 23, wherein the displacement fluid is a gas.
- 30. (Withdrawn) The process of claim 23, wherein the higher pressure zone is maintained at a temperature lower than the melting point of at least one solid in the slurry feed.
- 31. (Withdrawn) The process of claim 29, wherein the higher pressure zone is maintained at a temperature lower than the melting point of at least one solid in the slurry

feed.

- 32. (Withdrawn) A process for purifying para-xylene in a filtration zone defined by a higher pressure zone and a lower pressure zone separated by a filter, the process comprising the steps of:
  - (a) directing a slurry feed comprising a liquid and crystallized paraxylene at a temperature into the higher pressure zone;
  - (b) directing a displacement fluid at a temperature lower than the melling point of para-xylene into the higher pressure zone in countercurrent relation to the sturry feed;
  - (c) passing at least a portion of the liquid through the filter to the lower concentration zone, producing a filtrate.
  - (d) forming a dense phase comprising at least a portion of the crystallized para-xylene in the higher pressure zone; and
  - (e) recovering at least a portion of the crystallized para-xylene from the higher pressure zone.
  - 33. (Withdrawn) The process of claim 32, wherein the displacement fluid is a gas.
- 34. (Withdrawn) The process of claim 32, wherein the dense phase comprises a solid packed bed.
- 35. (Withdrawn) The process of claim 32, wherein the slurry feed is directed into the higher pressure zone at a temperature less than -50 °F.
- 36. (Withdrawn) The process of claim 32, wherein the slurry feed is directed into the higher pressure zone at a temperature less than -75 °F.
- 37. (Withdrawn) The process of claim 33, wherein the recovered crystallized para-xylene is at a temperature less than -25 °F.
- 38. (Withdrawn) The process of claim 33, wherein the recovered crystallized para-xylene is at a temperature less than -50 °F.

- 39. (Withdrawn) The process of claim 33, wherein the recovered crystallized para-xylene is at a temperature less than -75 °F.
  - 48. (Original) A solid-liquid separation process, comprising:
  - (a) providing a filter column comprising a hollow cylinder and at least one filter tube extending in an axial direction within the hollow cylinder, wherein at least one tube comprises an integrally attached filter, the filter forming a direct connection between an interior of the tube and an interior of the hollow cylinder;
    - (b) directing a slurry feed into the hollow cylinder; and
    - (c) directing a displacement fluid into the hollow cylinder.
  - 41. (Original) The process of claim 40, wherein the displacement fluid is a gas.
- 42. (Original) The process of claim 40, further comprising the step of passing a substantial portion of the displacement fluid through a filter.
- 43. (Original) The process of claim 41, further comprising the step of passing a substantial portion of the gas through a filter.
- 44. (Original) The process of claim 40, wherein the slurry feed comprises paraxylene.
- 45. (Original) The process of claim 41, wherein the slurry feed comprises paraxylene.
- 48. (Original) The process of claim 44, further comprising the step of forming a dense phase in the hollow cylinder.
- 47. (Original) The process of claim 45, further comprising the step of forming a dense phase in the hollow cylinder.
- 48. (Original) The process of claim 46, wherein the dense phase comprises a solid packed bed.

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- 48. (Original) The process of claim 48, wherein at least a portion of the gas passes through at least a portion of the solid packed bed to the filter.
- **50.** (Withdrawn) A process for separating solids from liquids in a filtration zone defining a higher pressure zone and a lower pressure zone separated by a filter, the process comprising the steps of:
  - (a) directing a slurry feed into the higher pressure zone at a pressure greater than atmospheric pressure;
  - (b) directing a displacement fluid into the higher pressure zone at a pressure sufficient to pass at least a portion of the displacement fluid through the filter to the lower pressure zone; and
- (c) forming a dense phase in the higher pressure zone; wherein the pressure of the displacement fluid is lower than the pressure of the slurry feed after the formation of the solid pecked bed.
  - 51. (Withdrawn) The process of claim 50, wherein the displacement fluid is a gas.
- 52. (Withdrawn) The process of claim 51, wherein the dense phase comprises a solid packed bed.